# STIC Search Report
## Biotech-Chem Library

**Scientific & Technical Information Center**
**STIC**
**USPTO**

TO: Nita M Minnifield
Location: rem/3c01/3c18
Art Unit: 1645
Wednesday, March 09, 2005
 Case Serial Number: 10/774602

From: Barb O'Bryen
Location: Biotech-Chem Library
Remsen 1A69
Phone: 571-272-2518

barbara.obryen@uspto.gov

## Search Notes

# RUSH

*Reviewed 3-15-05 MM*

**Sira**
Search and Information
Resources Administration

OM protein - protein search, using sw model

Copyright  GenCore version 5.1.6
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Run on:        March  8, 2005, 17:36:47 ; Search time 20.0413 Seconds
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Title:         US-10-774-602-11
Perfect score: 124
Sequence:      1 YEKAKNAYQKANQAVLKAKEASSYD 25

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched:      513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters:        513545

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
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                 Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a
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and is derived by analysis of the total score distribution.

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| 37 | 46.5 | 37.5 | 104 | 4 | US-09-489-039A-11042 | Sequence 11042, A |
| 38 | 46 | 37.1 | 198 | 4 | US-08-529-055-36 | Sequence 36, Appl |
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| 40 | 46 | 37.1 | 1129 | 4 | US-09-543-681A-8019 | Sequence 8019, Ap |
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| 42 | 45 | 36.3 | 313 | 4 | US-09-328-352-7010 | Sequence 7010, Ap |
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ALIGNMENTS

RESULT 1
US-08-416-711-1

; Sequence 1, Application US/08416711
; Patent No. 6017538
; GENERAL INFORMATION:
;  APPLICANT: DRUILHE, PIERRE
;  APPLICANT: BOUHAROUN-TAYOUN, HASNAQ
;  APPLICANT: OEUVRAY, CLAUDE
;  TITLE OF INVENTION: PLASMODIUM FALCIPARUM ANTIGENS INDUCING
;  TITLE OF INVENTION: PROTECTIVE ANTIBODIES
;  NUMBER OF SEQUENCES: 10
;  CORRESPONDENCE ADDRESS:
;  ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
;  ADDRESSEE: P.C.
;  STREET: 1755 S. JEFFERSON DAVIS HIGHWAY
;  CITY: ARLINGTON
;  STATE: VA
;  COUNTRY: USA
;  ZIP: 22202
;  COMPUTER READABLE FORM:
;  MEDIUM TYPE: Floppy disk
;  COMPUTER: IBM PC compatible
;  OPERATING SYSTEM: PC-DOS/MS-DOS
;  SOFTWARE: PatentIn Release #1.0, Version #1.30
;  CURRENT APPLICATION DATA:
;  APPLICATION NUMBER: US/08/416,711
;  FILING DATE: 08-AUG-1995
;  CLASSIFICATION: 424
;  PRIOR APPLICATION DATA:
;  APPLICATION NUMBER: PCT/FR93/01024
;  FILING DATE: 18-OCT-1993
;  PRIOR APPLICATION DATA:
;  APPLICATION NUMBER: FR 92/12488
;  FILING DATE: 19-OCT-1992
;  ATTORNEY/AGENT INFORMATION:
;  NAME: OBLON, NORMAN F.
;  REGISTRATION NUMBER: 24,618
;  REFERENCE/DOCKET NUMBER: 660-085-0 PCT
;  TELECOMMUNICATION INFORMATION:
;  TELEPHONE: 703-413-3000
;  TELEFAX: 703-413-2220
; INFORMATION FOR SEQ ID NO: 1:
;  SEQUENCE CHARACTERISTICS:
;  LENGTH: 64 amino acids
;  TYPE: amino acid
;  STRANDEDNESS: single
;  TOPOLOGY: linear
;  MOLECULE TYPE: peptide
; US-08-416-711-1

OM protein - protein search, using sw model

Copyright GenCore version 5.1.6
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Run on: March 8, 2005, 17:44:53 ; Search time 56.405 Seconds
(without alignments)
145.840 Million cell updates/sec

Title: US-10-774-602-11
Perfect score: 124
Sequence: 1 YEKAKNAYQKANQAVLKAKEASSYD 25

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1391452 seqs, 329044822 residues

Total number of hits satisfying chosen parameters: 1391452

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
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Database : Published Applications AA:*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

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| 3 | 116 | 93.5 | 64 | 14 | US-10-294-770-1 | Sequence 1, Appl |
| 4 | 116 | 93.5 | 64 | 15 | US-10-238-741-1 | Sequence 1, Appli |
| 5 | 116 | 93.5 | 64 | 16 | US-10-774-602-1 | Sequence 1, Appli |
| 6 | 96 | 77.4 | 23 | 14 | US-10-294-770-2 | Sequence 2, Appli |
| 7 | 96 | 77.4 | 23 | 15 | US-10-238-741-2 | Sequence 2, Appli |
| 8 | 96 | 77.4 | 23 | 16 | US-10-774-602-2 | Sequence 2, Appli |
| 9 | 51.5 | 41.5 | 866 | 16 | US-10-437-963-203902 | Sequence 203902, |
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| 11 | 50 | 40.3 | 79 | 14 | US-10-177-725-16 | Sequence 16, Appl |
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| 15 | 50 | 40.3 | 79 | 15 | US-10-393-449-16 | Sequence 16, Appl |
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| 45 | 46.5 | 37.5 | 679 | 16 | US-10-437-963-180858 | Sequence 180858, |

ALIGNMENTS

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; Publication No. US20030161840A1
; GENERAL INFORMATION:
; APPLICANT: DRUILHE, PIERRE
; TITLE OF INVENTION: PLASMODIUM FALCIPARUM ANTIGENS INDUCING PROTECTIVE ANTIBODIES
; FILE REFERENCE: 230759US0CIP
; CURRENT APPLICATION NUMBER: US/10/294,770
; CURRENT FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: US 09/356,947
; PRIOR FILING DATE: 1999-07-19
; PRIOR APPLICATION NUMBER: US 08/416,711
; PRIOR FILING DATE: 1995-08-08
; PRIOR APPLICATION NUMBER: PCT/FR93/01024
; PRIOR FILING DATE: 1993-10-18
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
; LENGTH: 25
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Peptide
US-10-294-770-11

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Db    1 YEKAKNAYQKANQAVLKAKEASSYD 25

RESULT 2

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              GenCore version 5.1.6
          Copyright (c) 1993 - 2005  Compugen Ltd.

OM protein - protein search, using sw model

Run on:       March  8, 2005, 17:36:47 ; Search time 21.6446 Seconds
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Perfect score: 150
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Searched:     513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters:          513545

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
                 Maximum Match 100%
                 Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
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| 18 | 47 | 31.3 | 416 | 4 | US-09-553-867A-9 | Sequence 9, Appl |
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| 23 | 47 | 31.3 | 416 | 4 | US-09-538-092-1157 | Sequence 1157, Ap |
| 24 | 47 | 31.3 | 417 | 4 | US-09-949-016-10920 | Sequence 10920, A |
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| 27 | 47 | 31.3 | 1390 | 2 | US-08-770-544-2 | Sequence 2, Appli |
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| 36 | 46 | 30.7 | 243 | 3 | US-09-134-001C-4654 | Sequence 4654, Ap |
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| 41 | 46 | 30.7 | 555 | 4 | US-09-292-225-15 | Sequence 15, Appl |
| 42 | 46 | 30.7 | 555 | 4 | US-09-292-225-18 | Sequence 18, Appl |
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| 44 | 46 | 30.7 | 599 | 4 | US-09-543-681A-4524 | Sequence 4524, Ap |
| 45 | 46 | 30.7 | 707 | 4 | US-09-266-965-101 | Sequence 101, App |

ALIGNMENTS

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  Patent No. 6017538
; GENERAL INFORMATION:
;  APPLICANT: DRUILHE, PIERRE
;  APPLICANT: BOUHAROUN-TAYOUN, HASNAQ
;  APPLICANT: OEUVRAY, CLAUDE
;  TITLE OF INVENTION: PLASMODIUM FALCIPARUM ANTIGENS INDUCING
;  TITLE OF INVENTION: PROTECTIVE ANTIBODIES
;  NUMBER OF SEQUENCES: 10
;  CORRESPONDENCE ADDRESS:
;   ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
;   ADDRESSEE: P.C.
;   STREET: 1755 S. JEFFERSON DAVIS HIGHWAY
;   CITY: ARLINGTON
;   STATE: VA
;   COUNTRY: USA
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;   APPLICATION NUMBER: US/08/416,711
;   FILING DATE: 08-AUG-1995
;   CLASSIFICATION: 424
;  PRIOR APPLICATION DATA:
;   APPLICATION NUMBER: PCT/FR93/01024
;   FILING DATE: 18-OCT-1993
;  PRIOR APPLICATION DATA:
;   APPLICATION NUMBER: FR 92/12488
;   FILING DATE: 19-OCT-1992
;  ATTORNEY/AGENT INFORMATION:
;   NAME: OBLON, NORMAN F.
;   REGISTRATION NUMBER: 24,618
;   REFERENCE/DOCKET NUMBER: 660-085-0 PCT
;  TELECOMMUNICATION INFORMATION:
;   TELEPHONE: 703-413-3000
;   TELEFAX: 703-413-2220
;  INFORMATION FOR SEQ ID NO: 3:
;   SEQUENCE CHARACTERISTICS:
;    LENGTH: 27 amino acids
;    TYPE: amino acid
;    STRANDEDNESS: single
;    TOPOLOGY: linear
;   MOLECULE TYPE: peptide
US-08-416-711-3
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Copyright GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on:    March 8, 2005, 17:44:53 ; Search time 60.9174 Seconds
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Title:          US-10-774-602-12
Perfect score:  150
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Searched:       1391452 seqs, 329044822 residues

Total number of hits satisfying chosen parameters:    1391452

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Pred. No. is the number of results predicted by chance to have a
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; Publication No. US20030161840A1
; GENERAL INFORMATION:
; APPLICANT: DRUILHE, PIERRE
; TITLE OF INVENTION: PLASMODIUM FALCIPARUM ANTIGENS INDUCING PROTECTIVE ANTIBODIES
; FILE REFERENCE: 23079USSOCIP
; CURRENT APPLICATION NUMBER: US/10/294,770
; CURRENT FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: US 09/356,947
; PRIOR APPLICATION FILING DATE: 1999-07-19
; PRIOR APPLICATION NUMBER: US 08/416,711
; PRIOR FILING DATE: 1995-08-08
; PRIOR APPLICATION NUMBER: PCT/FR93/01024
; PRIOR FILING DATE: 1993-10-18
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 27
; TYPE: PRT
; ORGANISM: Plasmodium falciparum
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US-10-294-770-12
; Sequence 12, Application US/10294770

GenCore version 5.1.6
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Run on:    March 8, 2005, 17:16:47 ; Search time 22.4463 Seconds
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Perfect score:  147
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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
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; Patent No. 6017538
; GENERAL INFORMATION:
; APPLICANT: DRUILHE, PIERRE
; APPLICANT: BOUHAROUN-TAYOUN, HASNAQ
; APPLICANT: OEUVRAY, CLAUDE
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; TITLE OF INVENTION: PROTECTIVE ANTIBODIES
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
; ADDRESSEE: P.C.
; STREET: 1755 S. JEFFERSON DAVIS HIGHWAY
; CITY: ARLINGTON
; STATE: VA
; COUNTRY: USA
; ZIP: 22202
; COMPUTER READABLE FORM:
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; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
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; APPLICATION NUMBER: US/08/416,711
; FILING DATE: 08-AUG-1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/FR93/01024
; FILING DATE: 18-OCT-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: FR 92/12488
; FILING DATE: 19-OCT-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: OBLON, NORMAN F.
; REGISTRATION NUMBER: 24,618
; REFERENCE/DOCKET NUMBER: 660-085-0 PCT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-413-3000
; TELEFAX: 703-413-2220
; INFORMATION FOR SEQ ID NO: 4:
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; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-416-711-4

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           GenCore version 5.1.6
           Copyright (c) 1993 - 2005 Compugen Ltd.  .

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Perfect score: 147
Sequence:      1 PEHKKEENMLSHLYVSSKDKENISKEND 28

Scoring table: BLOSUM62
               Gapop 10.0 , Gapext 0.5

Searched:      1391452 seqs, 329044822 residues

Total number of hits satisfying chosen parameters:      1391452

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
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SUMMARIES

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| 6 | 143 | 97.3 | 64 | 14 | US-10-294-770-1 | Sequence 1, Appli |
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; Sequence 13, Application US/10294770
; Publication No. US20030161840A1
; GENERAL INFORMATION:
;   APPLICANT: DRUILHE, PIERRE
;   TITLE OF INVENTION: PLASMODIUM FALCIPARUM ANTIGENS INDUCING PROTECTIVE ANTIBODIES
;   FILE REFERENCE: 230759USOCIP
;   CURRENT APPLICATION NUMBER: US/10/294,770
;   CURRENT FILING DATE: 2002-11-15
;   PRIOR APPLICATION NUMBER: US 09/356,947
;   PRIOR FILING DATE: 1999-07-19
;   PRIOR APPLICATION NUMBER: US 08/416,711
;   PRIOR FILING DATE: 1995-08-08
;   PRIOR APPLICATION NUMBER: PCT/FR93/01024
;   PRIOR FILING DATE: 1993-10-18
;   NUMBER OF SEQ ID NOS: 14
;   SOFTWARE: PatentIn version 3.1
; SEQ ID NO 13
;   LENGTH: 28
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Synthetic Peptide
US-10-294-770-13

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  Matches   28;  Conservative   0;  Mismatches   0;  Indels   0;  Gaps   0;

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RESULT 2
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GenCore version 5.1.6

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OM protein - protein search, using sw model

Run on:    March 8, 2005, 17:36:47 ; Search time 32.8678 Seconds
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Title:         US-10-774-602-14
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Scoring table: BLOSUM62
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Total number of hits satisfying chosen parameters:        513545

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
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               Pred. No. is the number of results predicted by chance to have a
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SUMMARIES

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| 25 | 73 | 35.8 | 111 | 4 | US-09-886-319A-9 | Sequence 9, Appli |
| 26 | 73 | 35.8 | 111 | 4 | US-09-886-319A-10 | Sequence 10, Appl |
| 27 | 73 | 35.8 | 168 | 4 | US-10-000-489-88 | Sequence 88, Appl |
| 28 | 73 | 35.8 | 168 | 4 | US-10-000-489-90 | Sequence 90, Appl |
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| 36 | 71 | 34.8 | 208 | 4 | US-09-214-881A-11 | Sequence 11, Appl |
| 37 | 71 | 34.8 | 414 | 4 | US-09-270-767-41485 | Sequence 41485, A |
| 38 | 71 | 34.8 | 568 | 4 | US-09-949-016-10896 | Sequence 10896, A |
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ALIGNMENTS

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; Sequence 4, Application US/08416711
; Patent No. 6017538
; GENERAL INFORMATION:
;   APPLICANT: DRUILHE, PIERRE
;   APPLICANT: BOUHAROUN-TAYOUN, HASNAQ
;   APPLICANT: OEUVRAY, CLAUDE
;   TITLE OF INVENTION: PLASMODIUM FALCIPARUM ANTIGENS INDUCING
;   TITLE OF INVENTION: PROTECTIVE ANTIBODIES
;   NUMBER OF SEQUENCES: 10
;   CORRESPONDENCE ADDRESS:
;     ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
;     ADDRESSEE: P.C.
;     STREET: 1755 S. JEFFERSON DAVIS HIGHWAY
;     CITY: ARLINGTON
;     STATE: VA
;     COUNTRY: USA
;     ZIP: 22202
;   COMPUTER READABLE FORM:
;     MEDIUM TYPE: Floppy disk
;     COMPUTER: IBM PC compatible
;     OPERATING SYSTEM: PC-DOS/MS-DOS
;     SOFTWARE: PatentIn Release #1.0, Version #1.30
;   CURRENT APPLICATION DATA:
;     APPLICATION NUMBER: US/08/416,711
;     FILING DATE: 08-AUG-1995
;     CLASSIFICATION: 424
;   PRIOR APPLICATION DATA:
;     APPLICATION NUMBER: PCT/FR93/01024
;     FILING DATE: 18-OCT-1993
;   PRIOR APPLICATION DATA:
;     APPLICATION NUMBER: FR 92/12488
;     FILING DATE: 19-OCT-1992
;   ATTORNEY/AGENT INFORMATION:
;     NAME: OBLON, NORMAN F.
;     REGISTRATION NUMBER: 24,618
;     REFERENCE/DOCKET NUMBER: 660-085-0 PCT
;   TELECOMMUNICATION INFORMATION:
;     TELEPHONE: 703-413-3000
;     TELEFAX: 703-413-2220
; INFORMATION FOR SEQ ID NO:     4:
;   SEQUENCE CHARACTERISTICS:
;     LENGTH: 28 amino acids
;     TYPE: amino acid
;     STRANDEDNESS: single
;     TOPOLOGY: linear
;   MOLECULE TYPE: peptide
US-08-416-711-4

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            GenCore version 5.1.6
      Copyright (c) 1993 - 2005 Compugen Ltd.

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Perfect score: 204
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and is derived by analysis of the total score distribution.

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| 4 | 101 | 49.5 | 28 | 16 | US-10-774-602-13 | Sequence 13, Appli |
| 5 | 97 | 47.5 | 28 | 14 | US-10-294-770-4 | Sequence 4, Appli |
| 6 | 97 | 47.5 | 28 | 15 | US-10-238-741-4 | Sequence 4, Appli |
| 7 | 97 | 47.5 | 28 | 16 | US-10-774-602-4 | Sequence 4, Appli |
| 8 | 97 | 47.5 | 64 | 14 | US-10-294-770-1 | Sequence 1, Appli |
| 9 | 97 | 47.5 | 64 | 15 | US-10-238-741-1 | Sequence 1, Appli |
| 10 | 97 | 47.5 | 64 | 16 | US-10-774-602-1 | Sequence 1, Appli |
| 11 | 87 | 42.6 | 1077 | 15 | US-10-099-322-110 | Sequence 110, App |
| 12 | 87 | 42.6 | 1077 | 15 | US-10-044-564-110 | Sequence 110, App |
| 13 | 83 | 40.7 | 197 | 13 | US-10-101-487-51 | Sequence 51, Appl |
| 14 | 83 | 40.7 | 197 | 13 | US-10-101-487-114 | Sequence 114, App |
| 15 | 80 | 39.2 | 161 | 16 | US-10-437-963-108765 | Sequence 108765, |
| 16 | 79 | 38.7 | 114 | 9 | US-09-864-761-36168 | Sequence 36168, A |
| 17 | 79 | 38.7 | 181 | 13 | US-10-101-487-45 | Sequence 45, Appl |
| 18 | 79 | 38.7 | 714 | 9 | US-09-978-242-3 | Sequence 3, Appli |
| 19 | 79 | 38.7 | 741 | 15 | US-10-282-122A-65999 | Sequence 65999, A |
| 20 | 78 | 38.2 | 89 | 9 | US-09-864-761-44120 | Sequence 44120, A |
| 21 | 78 | 38.2 | 117 | 9 | US-09-864-761-45592 | Sequence 45592, A |
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| 23 | 78 | 38.2 | 406 | 16 | US-10-437-963-115969 | Sequence 115969, |
| 24 | 77 | 37.7 | 186 | 13 | US-10-101-487-44 | Sequence 44, Appl |
| 25 | 77 | 37.7 | 198 | 13 | US-10-101-487-42 | Sequence 42, Appl |
| 26 | 77 | 37.7 | 200 | 13 | US-10-101-487-53 | Sequence 53, Appl |
| 27 | 76.5 | 37.5 | 97 | 14 | US-10-029-386-33853 | Sequence 33853, A |
| 28 | 76.5 | 37.5 | 1104 | 15 | US-10-104-047-2506 | Sequence 2506, Ap |
| 29 | 76.5 | 37.5 | 1125 | 9 | US-09-974-298-114 | Sequence 114, App |
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| 31 | 76 | 37.5 | 1154 | 14 | US-10-232-561-10 | Sequence 10, Appl |
| 32 | 76 | 37.3 | 179 | 13 | US-10-101-487-107 | Sequence 107, App |
| 33 | 76 | 37.3 | 983 | 15 | US-10-112-944-435 | Sequence 435, App |
| 34 | 76 | 37.3 | 1021 | 16 | US-10-408-765A-313 | Sequence 313, App |
| 35 | 76 | 37.3 | 1641 | 16 | US-10-408-765A-814 | Sequence 814, App |
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| 38 | 76 | 37.3 | 2492 | 16 | US-10-697-526-2 | Sequence 2, Appli |
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## ALIGNMENTS

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; Sequence 14, Application US/10294770
; Publication No. US2003016184OA1
; GENERAL INFORMATION:
; APPLICANT: DRUILHE, PIERRE
; TITLE OF INVENTION: PLASMODIUM FALCIPARUM ANTIGENS INDUCING PROTECTIVE ANTIBODIES
; FILE REFERENCE: 230759USOCIP
; CURRENT APPLICATION NUMBER: US/10/294,770
; CURRENT FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: US 09/356,947
; PRIOR FILING DATE: 1999-07-19
; PRIOR APPLICATION NUMBER: US 08/416,711
; PRIOR FILING DATE: 1995-08-08
; PRIOR APPLICATION NUMBER: PCT/FR93/01024
; PRIOR FILING DATE: 1993-10-18
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 14
; LENGTH: 41
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Peptide
US-10-294-770-14

  Query Match           100.0%;  Score 204;  DB 14;  Length 41;
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